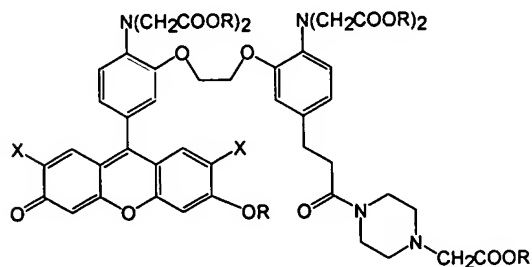


What is claimed is:

1. A class of cellular visible wavelength calcium indicators which are leakage resistant and consisting of a chemical compound having the formula

5 a)

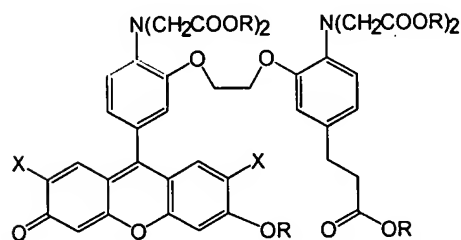


Where $R = K^+$ or CH_2OCOCH_3 (acetoxymethyl ester)

$X = Cl, F$

10 or

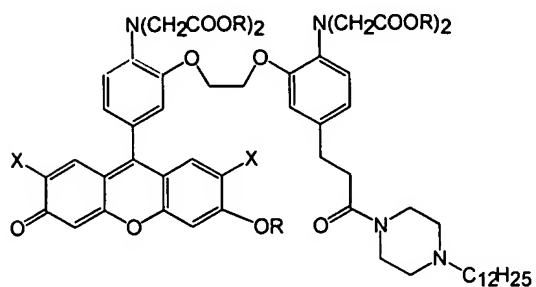
b)



Where $R = K^+$ or CH_2OCOCH_3 (acetoxymethyl ester)

15 $X = Cl, F$

2. A class of visible wavelength calcium indicators which operate near membranes and consisting of a chemical compound having the formula



Where R = K⁺ or CH₂OCOCH₃ (acetoxymethyl ester)

X = Cl, F